

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
3 November 2005 (03.11.2005)

PCT

(10) International Publication Number
WO 2005/104574 A1

(51) International Patent Classification⁷: **H04Q 7/20**

(21) International Application Number:
PCT/US2005/012796

(22) International Filing Date: 15 April 2005 (15.04.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/562,924 16 April 2004 (16.04.2004) US

(71) Applicant (for all designated States except US): **NORTEL NETWORKS LIMITED** [CA/CA]; 2351 Boulevard Alfred-Nobel, St. Laurent, Québec H4S 2A9 (CA).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **BIENN, Marvin** [US/US]; 7013 Rocky Top Circle, Dallas, TX 75252 (US).

BHARATIA, Jayshree [IN/US]; 1717 Pantigo Drive, Plano, TX 75075 (US). **NESARGI, Sanket** [IN/US]; 800 West Renner Road, #1024, Richardson, TX 75080 (US).

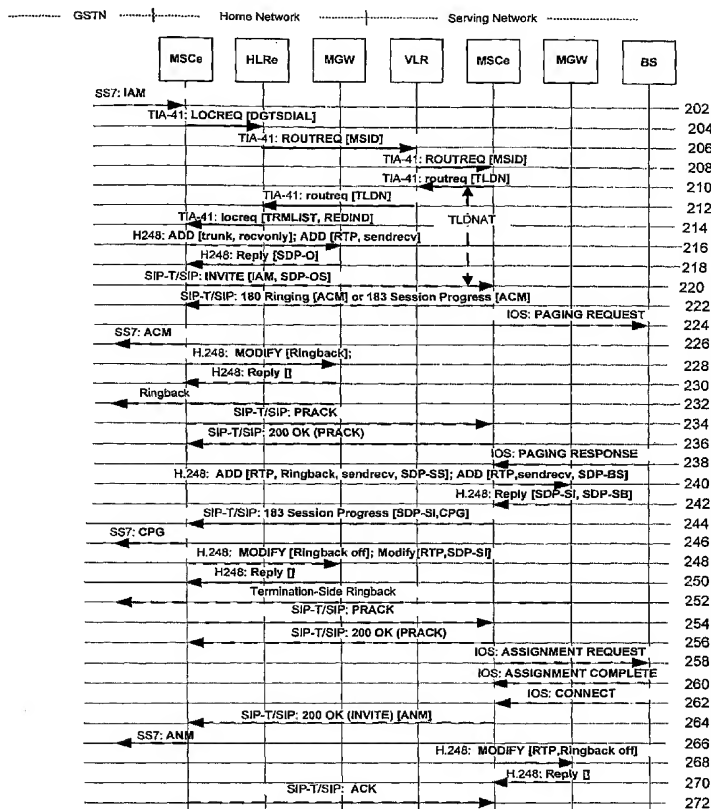
(74) Agents: **MCCOMBS, David L.** et al.; Haynes and Boone, LLP, 901 Main Street, Suite 3100, Dallas, TX 75202-3789 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH,

[Continued on next page]

(54) Title: SYSTEM AND METHOD FOR PROVIDING EARLY RINGBACK BY A HOME LEGACY MOBILE STATION DOMAIN NETWORK



(57) Abstract: A system and method of providing call progress to a calling party is provided. A circuit-switched call origination message is received in a home legacy mobile station domain. The call origination message specifies a destination terminal device having a directory number registered with the home legacy mobile station domain. A serving legacy mobile station domain in which the terminal device is registered is identified. The home legacy mobile station domain transmits to the serving legacy mobile station domain a call origination message. The home legacy mobile station domain receives from the serving legacy mobile station domain a first message that requests the home legacy mobile station domain to provide a call progress signal to an exchange that originated the circuit-switched call origination message and that serves the calling party in a circuit-switched network. The home legacy mobile station domain provides a call progress signal to the exchange.



GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

— *of inventorship (Rule 4.17(iv)) for US only*

Published:

- *with international search report*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.